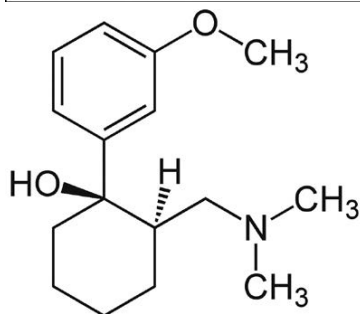
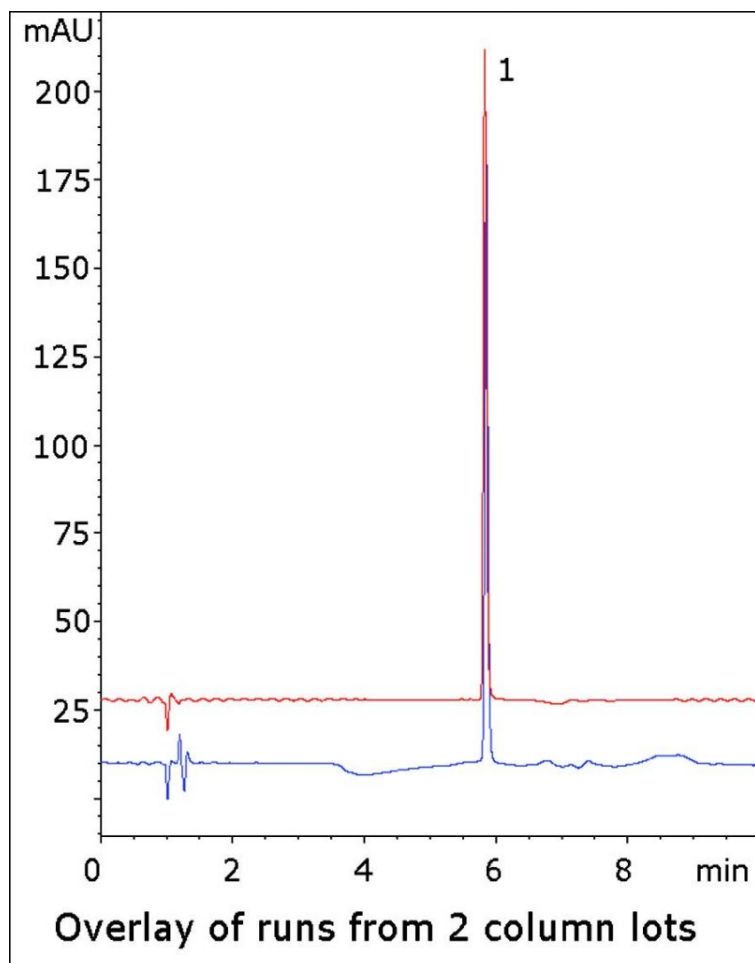


## Tramadol Tablet Analyzed with HPLC – AppNote

### An API with a Tertiary Amine - Easy & Efficient Method for Analysis

This Method for the Analysis of Tramadol Tablets, produces an Efficient Peak Shape for the API. The Peak is highly Symmetrical, which is often difficult to obtain for compounds with a tertiary amine. *Tramadol has chiral centers but this Method does not address that challenge.*



**Peak:**

Tramadol

### Method Conditions

**Column:** Cogent Bidentate C8™, 4µm, 100Å

**Catalog No.:** 40008-75P

**Dimensions:** 4.6 x 75mm

**Mobile Phase:**

A: DI Water with 0.1% (v/v) Trifluoroacetic Acid (TFA) v/v

B: Acetonitrile with 0.1% (v/v) Trifluoroacetic Acid (TFA) v/v

**Gradient:**

Time (minutes)	%B
0	10
2	10
6	50
7	10

**Post Time:** 3 minutes

**Injection vol.:** 1µL

**Flow rate:** 1.0mL / minute

**Detection:** UV @ 228nm

**Sample Preparation:** 50mg strength Tramadol Tablet was ground and added to a 10mL volumetric flask. 5mL of 50:50 Solvent A / Solvent B diluent was added and the flask was sonicated 10 minutes. Then a portion was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.). It was then diluted 1:5 for injection.

**t<sub>0</sub>:** 0.9 minutes

**Note:** Tramadol is an analgesic used to treat moderate to moderately severe pain. It can be used in both human and veterinary applications. It is sold under various formulation types and brand names, including Ryzolt®, Ultracet®, and Ultram®.



**Attachment**

**No 202 Tramadol Tablet Analyzed with HPLC pdf** 0.3 Mb [Download File](#)

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